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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/063,316	04/10/2002	Joseph A. Iadanza	BUR920010123	6885
	7590 01/19/200 ARNICK & D'ALESS.	EXAMINER		
75 STATE STR		VLAHOS, SOPHIA		
14TH FLOOR ALBANY, NY 12207			ART UNIT	PAPER NUMBER
			2611	
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 01/19/2007		01/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
Office Action Summers	10/063,316	IADANZA, JOSEPH A.				
Office Action Summary	Examiner	Art Unit				
	SOPHIA VLAHOS	2611				
The MAILING DATE of this communicate Period for Reply						
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNION OF THIS COMMUNICATION OF T	CATION. eply be timely filed ITHS from the mailing date of this communication. SANDONED (35 U.S.C. § 133)				
Status		•				
1)⊠ Responsive to communication(s) filed o	n 06 November 2006.					
	This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the appl	ication					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
`6)⊠ Claim(s) <u>1-4 and 6-20</u> is/are rejected.	5)⊠ Claim(s) <u>1-4 and 6-20</u> is/are rejected.					
7) Claim(s) <u>5</u> is/are objected to.						
8) Claim(s) are subject to restriction	n and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the E						
	10)⊠ The drawing(s) filed on <u>10 April 2002</u> is/are: a)⊠ accepted or b) objected to by the Examiner.					
Applicant may not request that any objection	• • • • • • • • • • • • • • • • • • • •	` '				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by	the Examiner. Note the attached	I Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
 Certified copies of the priority doc 						
Certified copies of the priority doc	2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the certified copies of the certified copies.	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO/SB/08) 		s)/Mail Date nformal Patent Application				
Paper No(s)/Mail Date	6) Other:	<u>-</u>				

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed 11/6/2006 with respect the rejection of independent claims 1,8,15, and 18 under 35 U.S.C. §102(e) using the Cranford (U.S. 6,298,458) reference (last paragraph of page 8 of section "III. Remarks") of claims have been fully considered and are persuasive. Therefore, the rejection of claims 1-4, 6-20 under 35 U.S.C. 102(e) as being anticipated by Cranford (U.S. 6,298,458) has been withdrawn.
- 2. Applicant's arguments with respect to the rejection of claims 1,8,15, and 18 under 35 U.S.C. 103(a) have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-4, 6-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cranford Jr. et. al., (U.S. 6,298,458) in view of Drost et. al., (U.S. 6,076,175).

With respect to claim 1, Cranford et. al., disclose: a transmitter for receiving a network data signal representative of a signal capable of being transmitted over a network and a control signal for impairing characteristics of the network data signal (Fig. 5, see "transmitter side of BIST", data signal 221, and combination of elements control

logic 220, and counters 215a, 215b, see column 3, lines 32-43, column 5, lines 23-37) for continuously generating an output signal corresponding to the data signal and the control signal during a predetermined time window (see column 10, lines 4-9); a receiver for continuously receiving the output signal from the transmitter (Fig. 5, receive side of BIST, see column 3, lines 43-48), and for reconstructing the network data signal within the predetermined time window (see column 10, lines 4-9); and a built-in-self-test (BIST) device for generating the network data signal and the control signal (Fig. 5, see column 3, lines 32-43), wherein the BIST device detects erroneous performance by the transceiver based on the reconstructed network data signal (column 3, lines 45-47).

Cranford et. al. do not expressly teach: a built-in-self-test (BIST) device for providing a reference clock signal with a varied offset for jitter testing the transceiver. In the same field of endeavor, Drost et. al., discloses: providing a reference clock signal with a varied offset for jitter testing the transceiver (Fig. 3 and Fig. 7, column 3, lines 18-33, where the transmitter has a clock generator and a variance circuit coupled to the clock generator, see column 3, lines 31-33 where the variance signal modulates a timing parameter such as the pulse width of the transmit clock signal Tx and the generated Tx clock corresponds to the claimed reference clock signal with a varied offset (the pulse width corresponds to the varied offset)) more details on column 5, lines 54-67, column 6, lines 1-5, and Drost et. al. providing a reference clock signal with a varied offset for jitter testing the transceiver, see column 6, lines 49-67, column 7, lines 1-29, where "jitter testing" corresponds to the testing of the BER –calculated based

on the number of bit errors caused by the variation of a timing parameter of a transmit clock, see abstract).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the system of Cranford et. al., to provide a reference clock signal with a varied offset for jitter testing the transceiver as taught by Drost et. al., to determine/test the reliability of the chip (transceiver) i.e. determine the actual BER of the device (see column 1, lines 63-65, column 7, lines 11-29 of Drost et. al.).

With respect to claim 2, all of the limitations of claim 2, are analyzed above in claim 1, and Cranford et. al. discloses: wherein the control signal includes signals for impairing a phase and an amplitude of the network data signal (see column 7, lines 65-67, column 8, lines 1-5, slurring control is understood to be relevant to an amplitude and phase impairment of the signal).

With respect to claim 3, all of the limitations of claim 3, are analyzed above in claim 1, and Drost et. al., discloses: a jitter control system (Fig. 7, column 3, lines 26-28). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use jitter control system of Drost et. al., in the BIST of Cranford et. al., because the jitter control system (part of the BER evaluation system) allows for determination of an actual BER of chips i.e. the reliability of the chip (column 7, lines 11-20).

With respect to claim 4, all of the limitations of claim 4, are analyzed above in

claim 3.

With respect to claim 6, all of the limitations of claim 6 are analyzed above in claim 1, and Cranford et. al., disclose: wherein the BIST device further comprises a pulse width counter for varying a pulse width of the network data signal (see column 5, lines 23-48, counters 215a and/or 215b, duty cycle (ratio of pulse duration over the period) corresponds to the pulse width).

With respect to claim 7, all of the limitations of claim 7 are analyzed above in claim 6, and Cranford et. al., disclose: wherein the pulse width counter tests a clock recovery capability of the receiver (column 5, lines 42-48 in understood that the pulse width counter is used to generate data that will test circuit responses, column 10, lines 12-17, where the recovered clock frequency may be compared to the expected clock frequency, i.e. the clock recovery capability of the receiver is tested).

With respect to claim 8, claim 8 is analyzed similarly to claim 1 above, and notice that Drost et. al. disclose: varying an offset of a clock signal embedded within the network data (see column 3, lines 18-26, 45-50, where the clock recovery operation at the receiver side from the data signal input, implies that the clock signal (with the varied offset) is embedded with the data at the receiver side).

With respect to claims 9, all of the limitations of claim 9, are analyzed above in claim 8, and Cranford et. al. discloses: wherein the control signal includes signals for

impairing a phase and an amplitude of the network data signal (see column 7, lines 65-67, column 8, lines 1-5, slurring control is understood to be relevant to an amplitude and phase impairment of the signal).

With respect to claim 10, all of the limitations of claim 10 are analyzed above in claim 9, and Cranford et. al., disclose: wherein the BIST device comprises means for programming the network data signals (Fig.5, combination of counters 215a,215b and 220 control logic, as well as output signal 221 going to the protocol generator, see also column 4, lines 45-52 referring to the protocol generator in the transmitter side, and column 5, lines 26-27 i.e. the control logic allows programming of the network data).

With respect to claim 11, all of the limitations of claim 11, are analyzed above in claim 8, and Cranford et. al., disclose: wherein the transmitter and the receiver are provided on a single integrated circuit, the transceiver further comprising a transfer gate for selectively coupling the output signal from the transmitter to the receiver within the integrated circuit (see Fig. 4, element 173, transfer gate).

With respect to claim 12, all of the limitations of claim 12 are analyzed above in claim 8, and Cranford et. al., discloses: wherein the network data signal includes an embedded clock signal, and wherein the BIST device comprises means for locking onto the embedded clock signal (see column 5, lines 58-62, PLL clock recovery understood to recover an embedded clock signal from the received data signal).

With respect to claim 13, all of the limitations of claim 13 are analyzed above in claim 12 and Cranford et. al., disclose: wherein the means for detecting erroneous performance by the transceiver comprises a counter device for counting edge transitions of the clock signal for establishing a time window for reconstructing the network data signal data recovered from the output signal (Fig. 5, element 232, recovered clock counter, see column 6, lines 32-35, column 9, lines 4-21).

With respect to claim 14, all of the limitations of claim 14, are analyzed above in claim 13, and Cranford et. al., discloses: wherein the means for detecting erroneous performance by the transceiver further comprises a counter device for counting edge transitions of the network data signal within the established time window (see Fig. 5, element 228, column 6, lines 30-32, at the receiver side that detects the erroneous performance of the transceiver, see column 3, lines 43-48).

With respect to claim 15, claim 15 is rejected similarly to claim 6 above.

With respect to claims 16, 17, these claims are rejected similarly to claims 13-14 above.

Claims 18-20 are rejected similarly to claims 15-17.

Allowable Subject Matter

- 5. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SOPHIA VLAHOS whose telephone number is 571 272 5507. The examiner can normally be reached on MTWRF 8:30-17:00.

Application/Control Number: 10/063,316

Art Unit: 2611

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mohammed Ghayour can be reached on 571 272 3021. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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SV 1/12/07

> MOHAMMED GHAYOUR SUPERVISORY PATENT EXAMINER

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